

Specific Plans: (Day to day listing)

Sunday, July 31, 1994

- Morning: 1. The Action and Regulation Lipid Digestive Enzymes
Session Leader: Howard Brockman, Hormel Institute.
- 9:00 am Howard Brockman, Hormel Institute, U.S.A. - The role of lipid/aqueous interface on the rate of lipolysis
- 9:35 am Robert Verger, C.N.R.S., Marseille, France - Gastric and pancreatic lipases: biochemical and physiological studies
- 10:10 am David Hui, Univ. of Cincinnati, U.S.A. - Genetic regulation of cholesterol esterase (carboxyl ester hydrolase)
- 10:45 am Break
- 11:00 am Patsy M. Brannon, Univ. of Arizona, U.S.A. - Dietary and hormonal regulation of pancreatic lipase gene expression
- 11:35 am Eugene P. DiMagno, Mayo Clinic, U.S.A. - Secretion and fate of lipase and colipase in healthy humans and in chronic pancreatitis
- Evening: 2. Micellar and non-micellar uptake of dietary lipids
Section Leader: Martin Carey, Harvard Medical School, U.S.A.
- 7:30 pm John W. Nichols, Emory Univ., U.S.A. - Mechanisms of lysophospholipid and bile salt absorption in the small intestine
- 8:00 pm Wolfgang Stremmel, Univ. of Düsseldorf, F.R.G. - The role of the brush border fatty acid binding protein on intestinal fat absorption
- 8:30 pm Break
- 8:45 pm Martin Carey, Harvard Medical School, U.S.A. - Micellar and non-micellar uptake of 2-monoglyceride and fatty acid

Monday, August 1

- Morning 3. Intracellular transport and metabolism of lipids
Section Leader: Charles M. Mansbach, Univ. of Tennessee
- 9:00 am Judith Storch, Harvard Sch. of Public Health, U.S.A. - The role of fatty acid binding protein in intracellular lipid transport.
- 9:35 am Arnis Kuksis, Univ. of Toronto, Canada - Apparent convergence (at 2-monoglyceride level) of phosphatidic acid and 2-monoglyceride pathways of synthesis of chylomicron triglyceride
- 10:10 am Charles M. Mansbach, Univ. of Tennessee, U.S.A. - Origin of endogenous acyl groups in intestinal triglyceride
- 10:45 am Break
- 11:00 am Rosalind Coleman, Univ. of North Carolina, U.S.A. - The role of monoacylglycerol transferase in retaining essential fatty acids
- 11:35 am Allen R. Place, Maryland Biotechnology Institute, U.S.A. - Wax ester absorption and metabolism by sea mammals: living off the fat of the sea
- Evening 4. Intestinal apolipoprotein synthesis and metabolism
Section Leader: Robert M. Glickman, Harvard Medical School
- 7:30 pm Nicholas O. Davidson, Univ. of Chicago, U.S.A. - Apolipoprotein B editing

8:00 pm *Jeffrey F. Field*, Univ. of Iowa, U.S.A. - Regulation of
apolipoprotein B secretion by CaCo-2 cells
8:30 pm Break
8:45 pm *Robert M. Glickman* - Harvard Medical School, U.S.A. -
Intestinal apolipoprotein gene regulation

Tuesday, August 2

Morning: 5. Dietary and therapeutic modification of intestinal lipid
absorption
Section Leader: Alan B.R. Thomson, Univ. of Alberta, Canada
9:00 am *Dan Quinn*, Univ. of Iowa, U.S.A. - Enzyme structure and
molecular recognition in cholesterol esterase catalysis and
inhibition
9:35 am *Bengt Borgstrom*, Univ. of Lund, Sweden - Pancreatic lipase
inhibitors
10:10 am *Brian R. Krause*, Parke-Davis, U.S.A. - Pharmacologic approach to
the study of intestinal ACAT, pancreatic cholesterol esterase
and pancreatic phospholipase A₂ in cholesterol absorption
10:45 am Break
11:00 am *Alfred H. Merrill*, Emory Univ., U.S.A. - Digestion of dietary
sphingolipids and effects on gastrointestinal physiology
11:35 am *Alan B.R. Thomson*, Univ. of Alberta, Canada - Dietary
modification of intestinal lipid absorption

Evening: 6. New frontiers in intestinal research.
Session Leader: David Y. Hui, Univ. of Cincinnati, U.S.A.

7:30 pm *Jeffrey I. Gordon*, Washington Univ. Sch. of Med., U.S.A. - The
use of transgenic animals in intestinal research

Wednesday, August 3

Morning 7. Lipoprotein structure, packaging and secretion
Session Leader: Roger Davis, San Diego State Univ., U.S.A.
9:00 am *John Wetterau*, Bristol-Myers Squibb Co., U.S.A. - The role of the
microsomal triglyceride transfer protein in lipoprotein assembly
9:35 am *Donald Puppione*, Univ. of California Los Angeles, U.S.A.,
Factors affecting the composition and structure of chylomicrons
10:10 am *Robert Hamilton*, Univ. of California San Francisco, U.S.A. -
Apo B core lipidation: a two-step model of lipoprotein assembly
10:45 am Break
11:00 am *Tak Yee Aw*, Louisiana State Univ., U.S.A. - The role of
glutathione in lipid hydroperoxide metabolism by the intestine
11:35 am *Roger Davis*, San Diego State Univ., U.S.A. - Mechanism of
assembly of triglyceride-rich lipoproteins

Evening 8. Neonatal development of intestinal lipid absorption.
Session Leaders: Claude C. Roy, Univ. of Montreal, Canada and
Dennis D. Black, Univ. of Chicago, U.S.A.
7:30 pm *Emile Levy*, Univ. of Montreal, Canada. - New concepts in
intestinal lipoprotein synthesis and secretion in the neonate

- 8:00 pm *Deborah C. Rubin*, Washington Univ. Sch. of Med., U.S.A. -
Ontogenic analysis of spatial and cellular patterns of
apolipoprotein gene expression in normal and isografted rat
intestine
- 8:30 pm Break
- 8:45 pm *Dennis D. Black*, Univ. of Chicago, U.S.A. - Regulation of
apolipoprotein gene expression in the neonate

Thursday, August 4

- Morning 9. Postprandial lipoprotein and apolipoprotein metabolism.
Session Leader: Trevor G. Redgrave, Univ. of Western Australia, Australia.
- 9:00 am *Trevor G. Redgrave*, Univ. of West Australia, Australia. -
Genetic control of chylomicron transport and metabolism
- 9:35 am *George A. Bray*, Pennington Biomedical Research Center, U.S.A. -
Peptides affecting fat intake
- 10:10 am *John M. Dietschy*, Texas Southwestern Med. Ctr., U.S.A. - The
effect of specific dietary fatty acids on regulation of hepatic
LDL receptor activity
- 10:45 am Break
- 11:00 am *Patrick Tso*, Louisiana State Univ., U.S.A. - Apolipoprotein A-IV
is a potent satiety factor
- 11:30 am *Alan F. Hofmann*, Univ. of California San Diego, U.S.A. - A
summary of the conference and future directions